

**The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130**

DEVAL L. PATRICK
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JUDYANN BIGBY, MD
SECRETARY
JOHN AUERBACH
COMMISSIONER

12/2/2011

Ryan T. Mingo
Assistant District Attorney
Suffolk County District Attorney's Office

Dear ADA Mingo,

Enclosed is the information you requested in regards to item # [REDACTED]

1. Curriculum Vitae for Hevis Lleshi and Annie Dookhan
2. Drug Analysis Laboratory Receipt.
3. Control Card with analytical results for sample # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC and GC/Mass Spectral analytical data for sample # [REDACTED]

Hevis Lleshi was the custodial chemist and performed preliminary testing and net weight for this sample. Annie Dookhan was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

Ms. Hevis Lleshi
Chemist I
Drug Analysis Laboratory
Jamaica Plain, MA 02130
(617) 983-6627

Curriculum Vitae

Hevis Lleshi

Education

Boston University School of Medicine – Master of Science, Forensic Science
University of South Florida – Bachelor of Arts, Clinical Psychology

Related Coursework

Forensic Chemistry • Forensic Toxicology • Forensic Pathology • Forensic DNA Analysis
Organic / Analytical Chemistry • Forensic Biology • Biochemistry • Forensic Trace Evidence

Employment

March, 2011 – Present
Chemist I, Massachusetts Department of Public Health,
Drug Analysis Laboratory

- Appointed Assistant Analyst by Assistant Commissioner of Public Health, June, 2011
- Responsible for the identification of substances to determine violation of harmful and narcotic drug laws of the Commonwealth of Massachusetts
- Trained in the use of complex analytical instrumentation for the purpose of forensic drug analysis
- Notary Public

Additional Training and Laboratory Experience

- Completed ten-week training course conducted by Laboratory Senior Staff within the Department of Public Health, Drug Analysis Laboratory, 2011
- GC and GC/MS training with Restek, 2011
- Instrumental Forensic Chemistry/Toxicology Laboratory, Boston University, 2009
- Serology/Bloodstain Pattern Analysis Techniques, Boston University, 2009

Internship, MASSACHUSETTS STATE POLICE—MARINE SECTION, BOSTON, MA, 2008 – 2010

Associations

- American Academy of Forensic Sciences (AAFS)
- Boston University Forensic Science Society (BUFSS)

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Oversee the Quality Control/Quality Assurance program for the Drug Lab.

*Maintenance and repairs of all analytical instruments.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Notary Public.

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department for the Food and Drug Administration.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)



DRUG RECEIPT

CC # [REDACTED]
BOOK # 67
PAGE # 141
DESTRUCTION # _____

District/Unit D-4 DCU
Name & Rank of Arresting Officer Sgt. Det. Keenan ID# 10652

DEFENDANT'S NAME	ADDRESS	CITY	STATE
[REDACTED]	[REDACTED]	<u>Dorchester</u>	<u>MA</u>
[REDACTED]	[REDACTED]	<u>mattapan</u>	<u>MA</u>
DESCRIPTION OF ITEMS SUBMITTED		GROSS QUANTITY	LAB USE ONLY
			GROSS WEIGHT ANALYSIS NUMBER
<u>White Rock (crack cocaine)</u>		<u>2 p/b's</u>	<u>6.47 gm</u> [REDACTED]

To be completed by ECU personnel only

Name and Rank of Submitting Officer Sgt. White ID# 11064
Received by [Signature] Date 4.20.11
ECU Control # _____

No. [REDACTED] Date Analyzed: 07-06-11
City: Boston D.C.U. Police
Officer: P.O. SYBIL WHITE

Def: [REDACTED]
Amount: Subst: SUB
No. Cont: 2 Cont: pb

Date Rec'd: 04/20/2011 No. Analyzed: /

Gross Wt: 5.470 Net Wt: 1.26g (of 1 analyzed)
#Tests: 7

*2ASO
Prelim: Cocaine (HLL) Findings: cocaine

DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Boston ANALYST HLL

No. of samples tested: 1

Evidence Wt. OK

PHYSICAL DESCRIPTION:

Two pb containing
off white chunky
substance. One
pb tested.

Gross Wt (2): 2.6913 g

Gross Wt (1): 1.3959 g

Pkg. Wt:

Net Wt: (1) 1.2617 g

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate () + weak / + strong blue

Marquis -

Froehde's -

Mecke's -

Microcrystalline Tests

Gold
Chloride +

TLTA () + w/ acid

OTHER TESTS

GC: + Retention

time similar to cocaine standard @ 3.681

See run on 6/29/2011

PRELIMINARY TEST RESULTS

RESULTS Cocaine

DATE 6/29/2011

GC/MS CONFIRMATORY TEST

RESULTS Cocaine

MS
OPERATOR ASD

DATE 7/6/2011

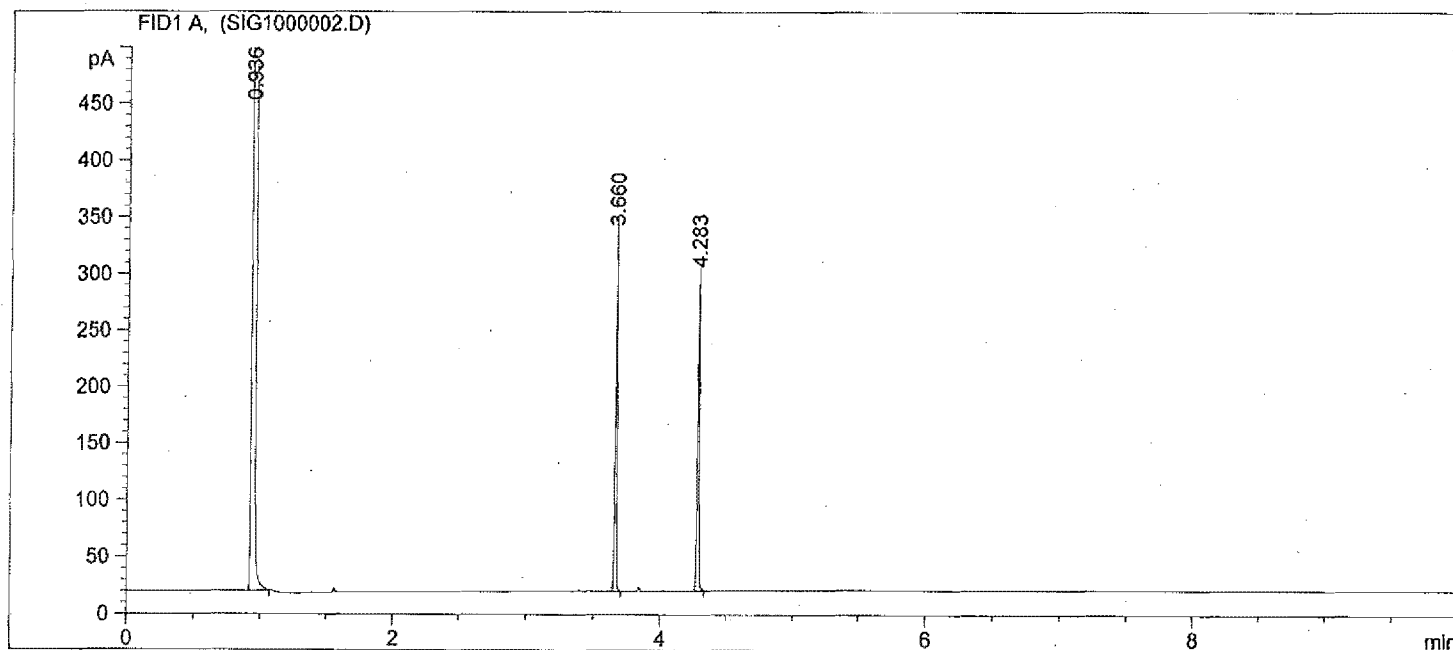
Sample Name: Cocaine/Codeine STD

```

=====
Acq. Operator   : ASD                      Seq. Line :    2
Acq. Instrument : DrugLab GC #2            Location  : Vial 2
Injection Date  : 6/29/2011 2:52:52 PM     Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method          : C:\CHEM32\1\METHODS\ROUTINE.M
Last changed    : 7/28/2010 1:59:36 PM
=====

```



```

=====
                          Area Percent Report
=====

```

```

Sorted By           :      Retention Time
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      1.00000 [ng/ul]   (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	0.936	1	BB S	5.51122e4	6.19411e4	99.06488
2	3.660	1	BB	266.51126	317.34833	0.47906
3	4.283	1	BB	253.72009	280.55545	0.45606

```
Totals :                5.56325e4  6.25390e4
```

```

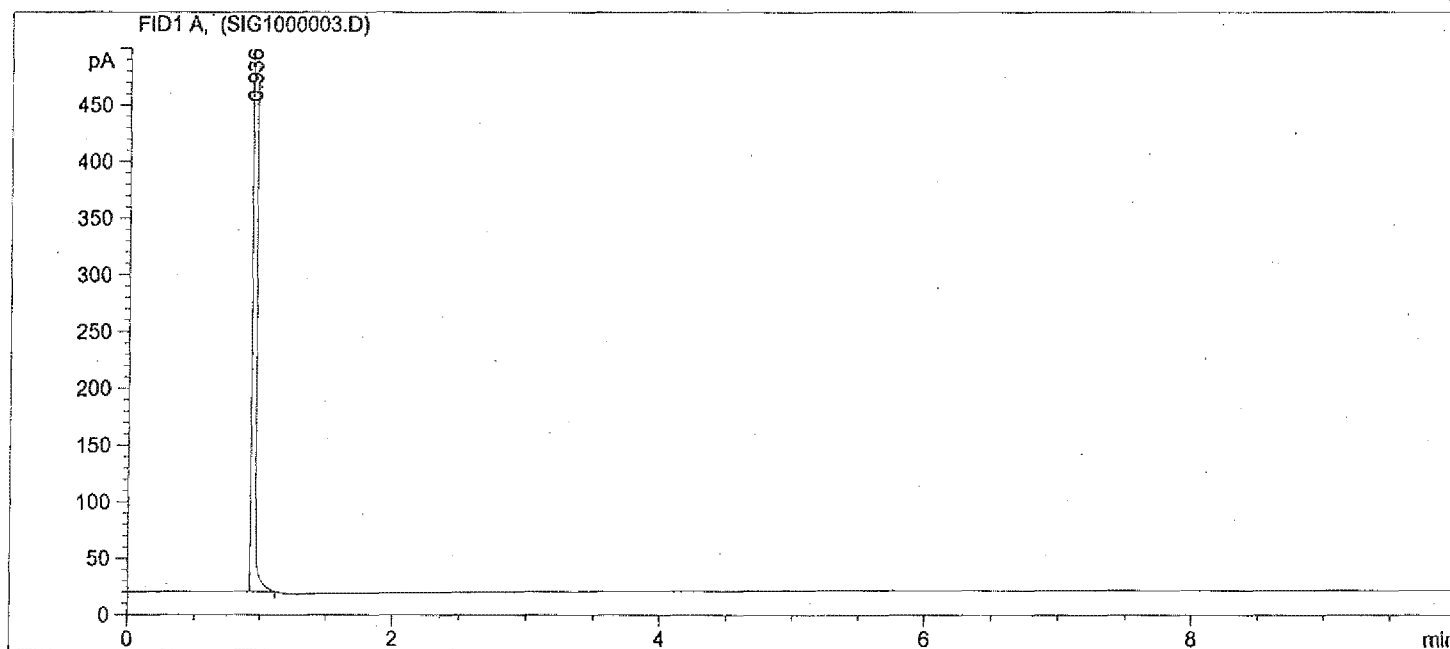
=====
*** End of Report ***

```


Sample Name: Blank

```
=====
Acq. Operator   : ASD                      Seq. Line :    3
Acq. Instrument : DrugLab GC #2            Location  : Vial 3
Injection Date  : 6/29/2011 3:06:20 PM     Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method          : C:\CHEM32\1\METHODS\ROUTINE.M
Last changed    : 7/28/2010 1:59:36 PM
=====
```



```
=====
                        Area Percent Report
=====
```

```
Sorted By           :      Retention Time
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      1.00000 [ng/ul]   (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	0.936	1	BB S	5.59469e4	6.29084e4	1.000e2

Totals : 5.59469e4 6.29084e4

```
=====
*** End of Report ***
```

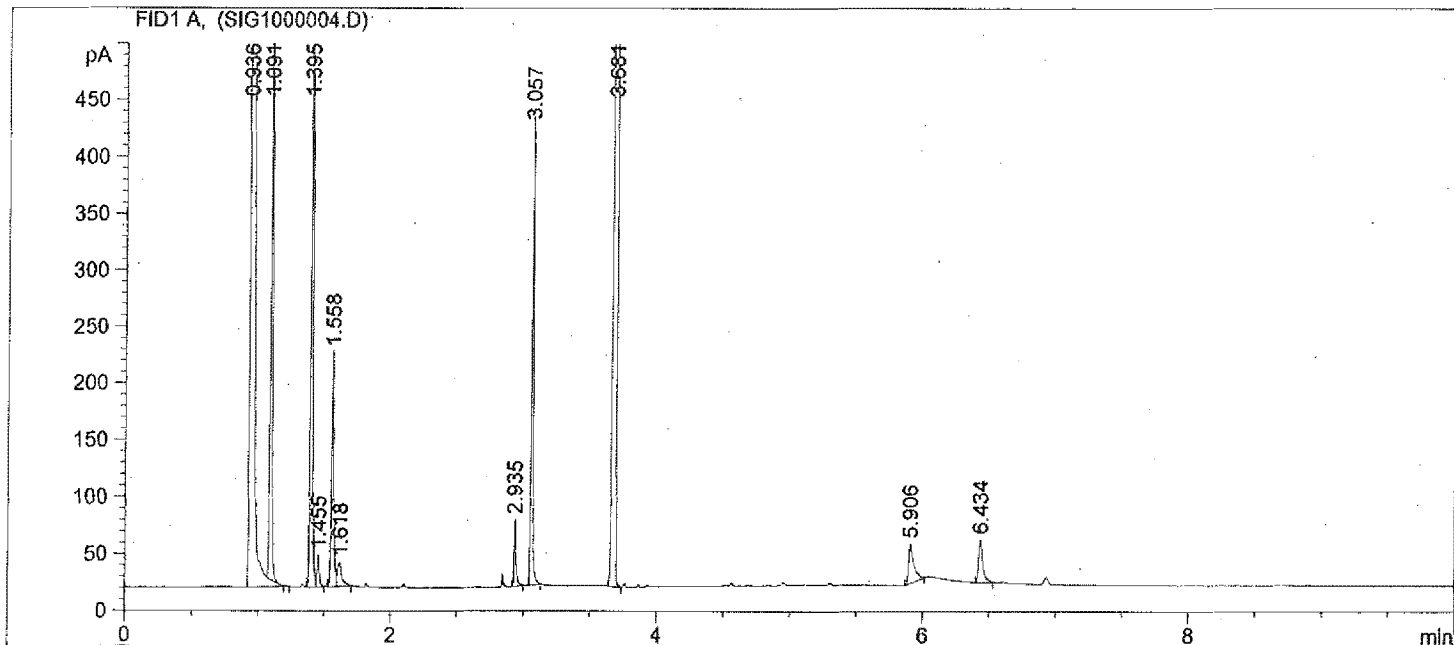
Sample Name: XXXXXXXXXX

```

=====
Acq. Operator   : ASD                      Seq. Line :    4
Acq. Instrument : DrugLab GC #2           Location  : Vial 4
Injection Date  : 6/29/2011 3:19:48 PM    Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method          : C:\CHEM32\1\METHODS\ROUTINE.M
Last changed    : 7/28/2010 1:59:36 PM
=====

```



```

=====
                        Area Percent Report
=====

```

```

Sorted By           :      Retention Time
Multiplier:         :      1.0000
Dilution:           :      1.0000
Sample Amount:      :      1.00000 [ng/ul]   (not used in calc.)
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

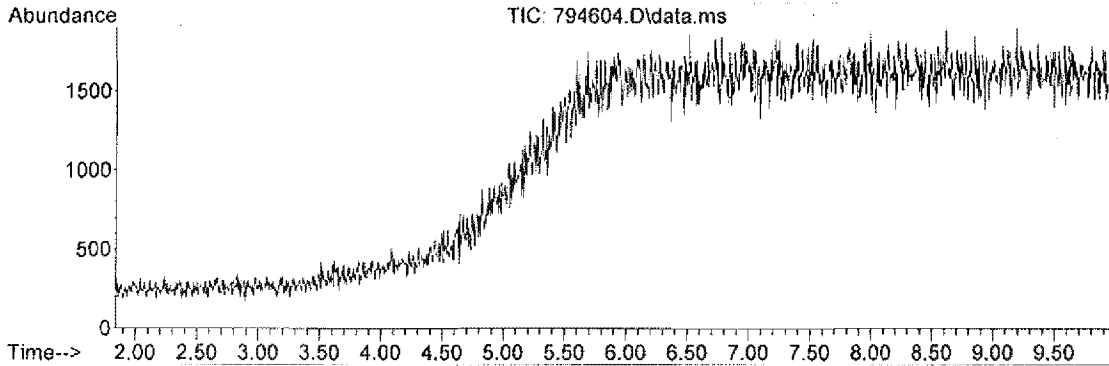
Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	0.936	1	BB S	5.42657e4	6.24231e4	91.75481
2	1.091	1	BB T	525.83575	541.33844	0.88911
3	1.395	1	VV	745.07336	849.69165	1.25980
4	1.455	1	VB	34.23511	28.10285	0.05789
5	1.558	1	BV	239.58043	206.05278	0.40509
6	1.618	1	VB	52.65858	21.14087	0.08904
7	2.935	1	BB	62.40889	58.45368	0.10552
8	3.057	1	BB	354.02838	404.85898	0.59861
9	3.681	1	BB	2685.32642	2131.13745	4.54047
10	5.906	1	BB	95.68442	34.58860	0.16179
11	6.434	1	BB	81.53992	37.39281	0.13787

Totals : 5.91420e4 6.67358e4

Information from Data File:

File Name : C:\msdchem\1\System7\07_01_11\794604.D
Operator : ASD
Date Acquired : 1 Jul 2011 11:09
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

✓ ASD
11-29-11 ASD

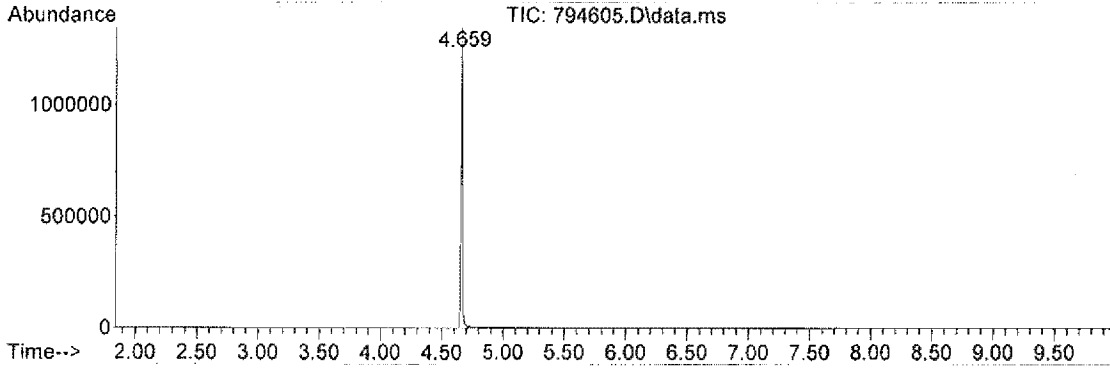


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : C:\msdchem\1\System7\07_01_11\794605.D
 Operator : ASD
 Date Acquired : 1 Jul 2011 11:22
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 5
 AcquisitionMeth: DRUGS.M
 Integrator : RTE



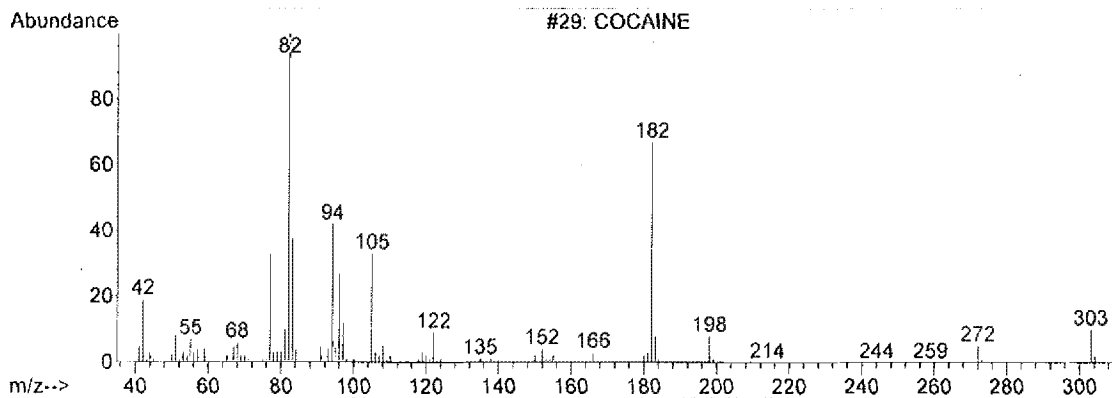
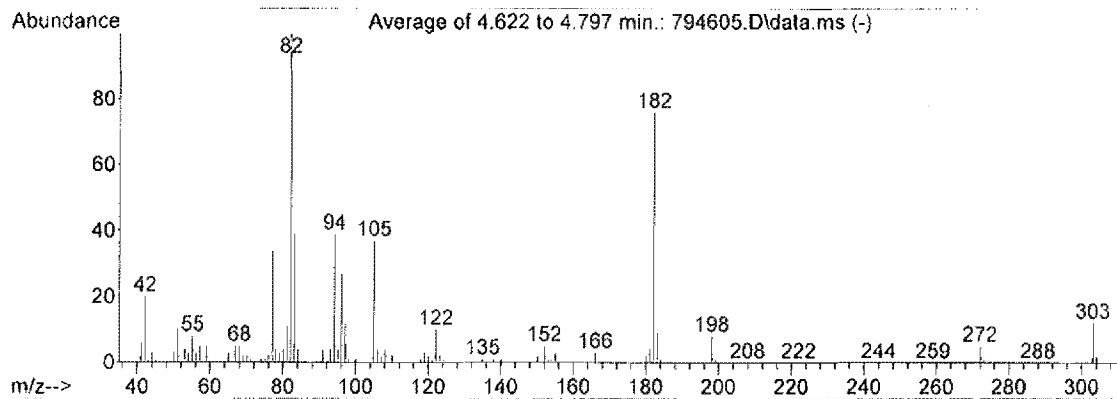
Ret. Time	Area	Area %	Ratio %
4.659	1180928	100.00	100.00

Information from Data File:

File Name : C:\msdchem\1\System7\07_01_11\794605.D
Operator : ASD
Date Acquired : 1 Jul 2011 11:22
Sample Name : COCAINE STD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS.M
Integrator : RTE

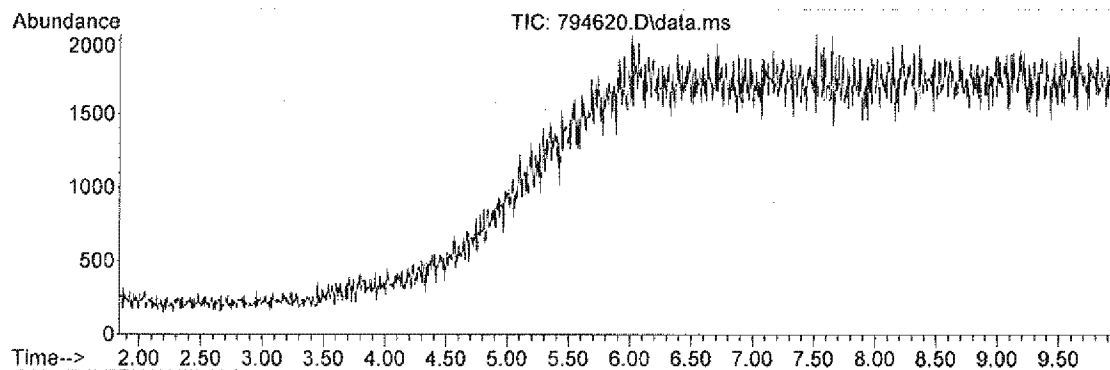
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.66	C:\Database\SLI.L COCAINE	000050-36-2	99



Information from Data File:

File Name : C:\msdchem\1\System7\07_01_11\794620.D
Operator : ASD
Date Acquired : 1 Jul 2011 14:33
Sample Name : BLANK
Submitted by : HLL
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

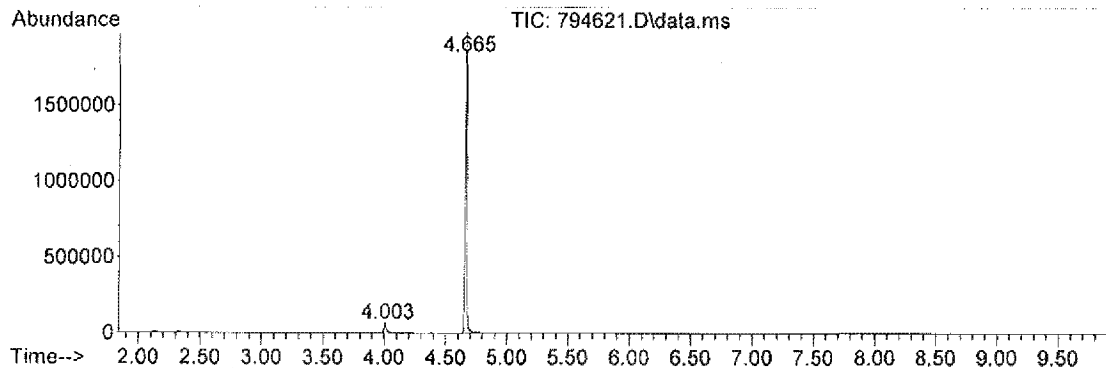


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : C:\msdchem\1\System7\07_01_11\794621.D
Operator : ASD
Date Acquired : 1 Jul 2011 14:45
Sample Name : XXXXXXXXXX
Submitted by : HLL
Vial Number : 21
AcquisitionMeth: DRUGS.M
Integrator : RTE



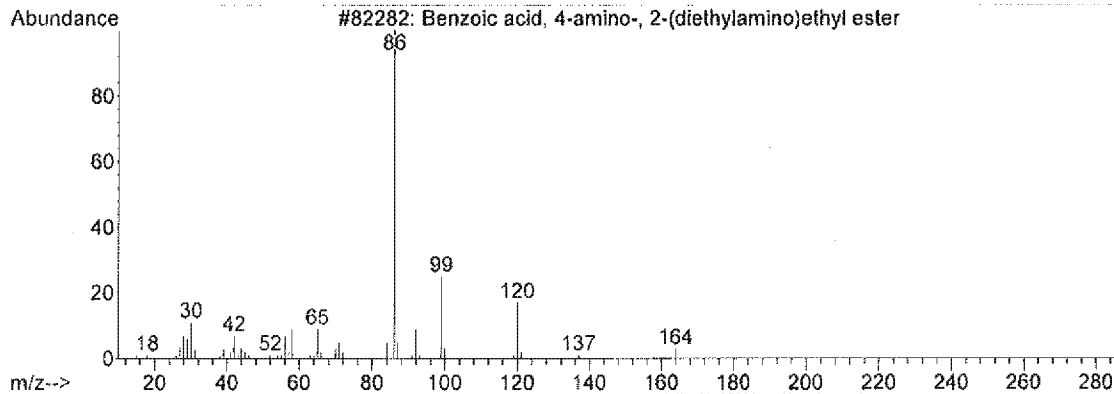
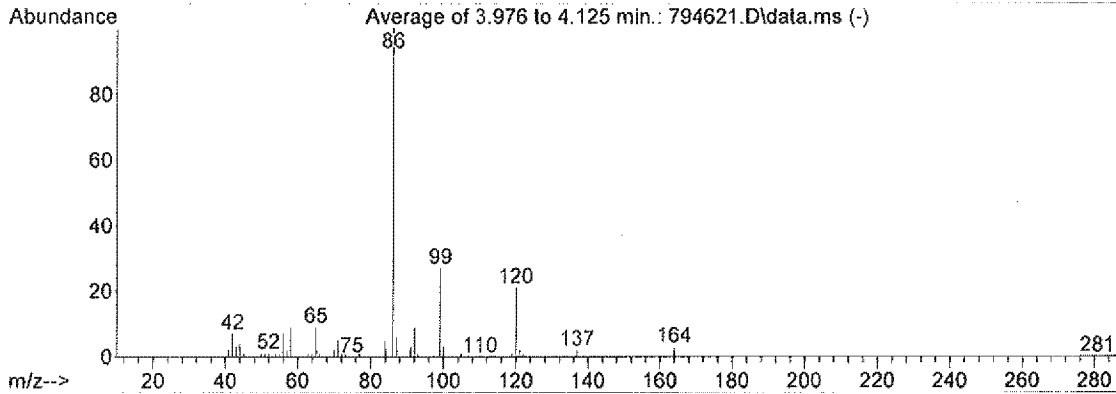
Ret. Time	Area	Area %	Ratio %
4.003	100255	4.79	5.03
4.665	1991643	95.21	100.00

Information from Data File:

File Name : C:\msdchem\1\System7\07_01_11\794621.D
Operator : ASD
Date Acquired : 1 Jul 2011 14:45
Sample Name : XXXXXXXXXX
Submitted by : HLL
Vial Number : 21
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.00	C:\Database\NIST05a.L		
		Benzoic acid, 4-amino-, 2-(diethyla	000059-46-1	90
		Benzamide, 4-amino-N-[2-(diethylami	000051-06-9	83
		Benzamide, 4-amino-N-[2-(diethylami	000051-06-9	83

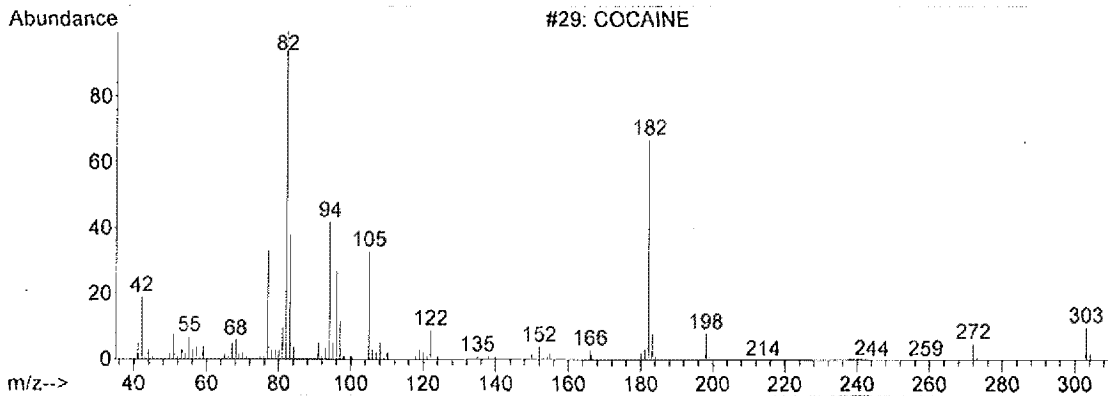
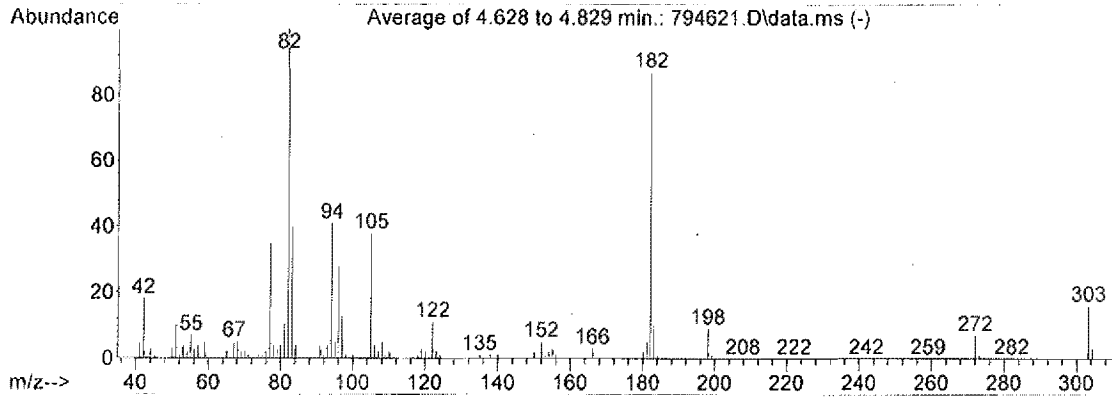


Information from Data File:

File Name : C:\msdchem\1\System7\07_01_11\794621.D
Operator : ASD
Date Acquired : 1 Jul 2011 14:45
Sample Name : XXXXXXXXXX
Submitted by : HLL
Vial Number : 21
AcquisitionMeth: DRUGS.M
Integrator : RTE

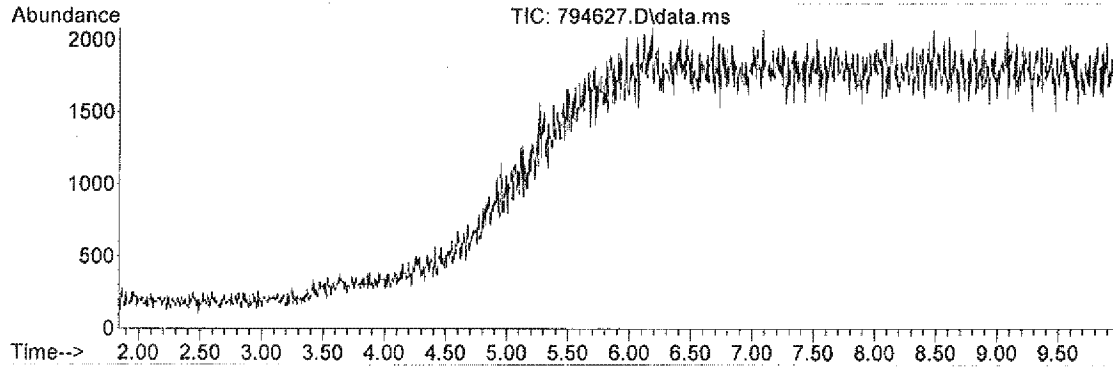
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.66	C:\Database\SLI.L COCAINE	000050-36-2	99



Information from Data File:

File Name : C:\msdchem\1\System7\07_01_11\794627.D
Operator : ASD
Date Acquired : 1 Jul 2011 16:01
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

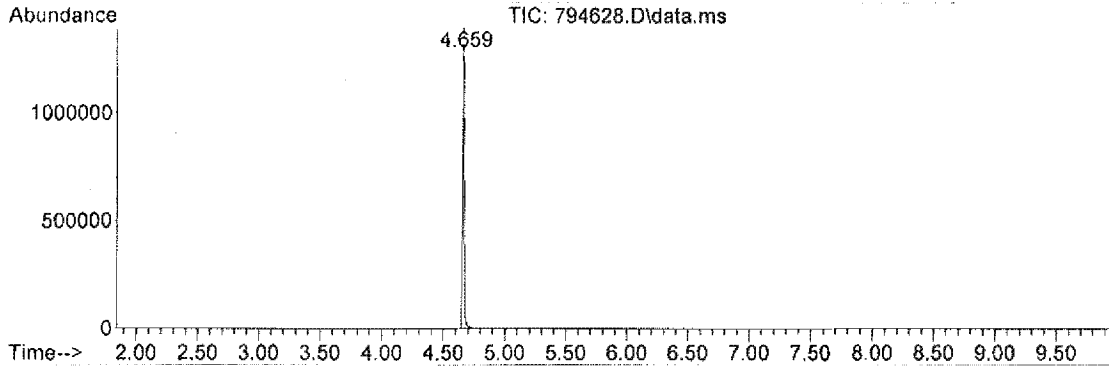


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : C:\msdchem\1\System7\07_01_11\794628.D
Operator : ASD
Date Acquired : 1 Jul 2011 16:14
Sample Name : COCAINE STD
Submitted by :
Vial Number : 5
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.659	1238857	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_01_11\794628.D
 Operator : ASD
 Date Acquired : 1 Jul 2011 16:14
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 5
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.66	C:\Database\SLI.L COCAINE	000050-36-2	99

